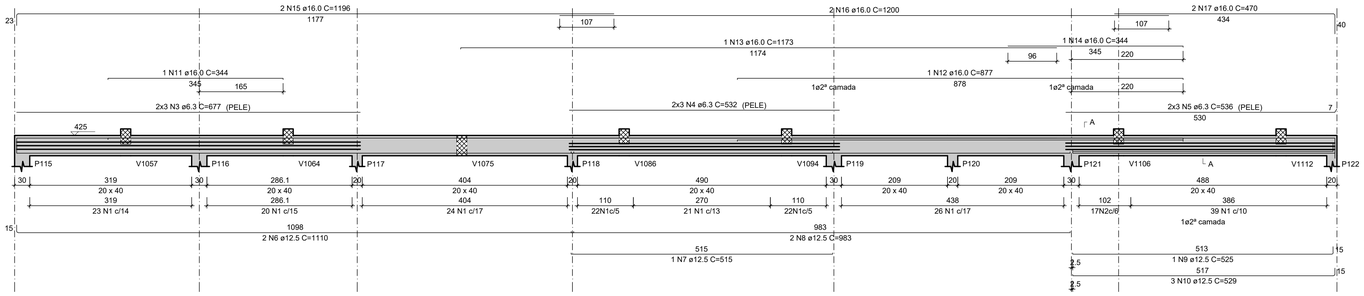
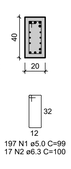
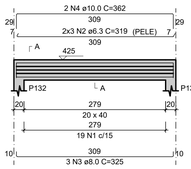
V1040
ESC 1:50



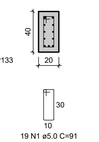
SEÇÃO A-A
ESC 1:25



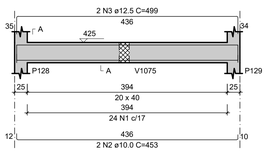
V1043
ESC 1:50



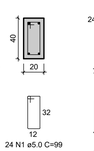
SEÇÃO A-A
ESC 1:25



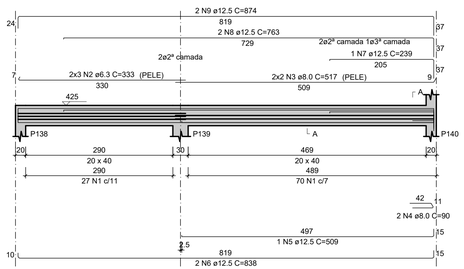
V1042
ESC 1:50



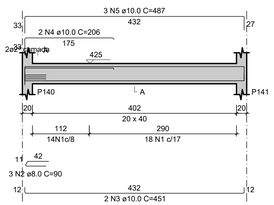
SEÇÃO A-A
ESC 1:25



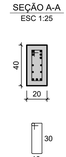
V1044
ESC 1:50



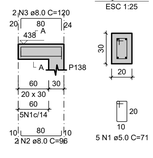
V1045
ESC 1:50



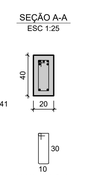
SEÇÃO A-A
ESC 1:25



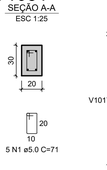
V1048=V1051
ESC 1:50



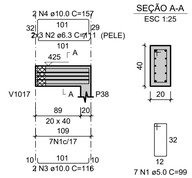
SEÇÃO A-A
ESC 1:25



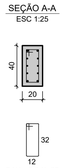
SEÇÃO A-A
ESC 1:25



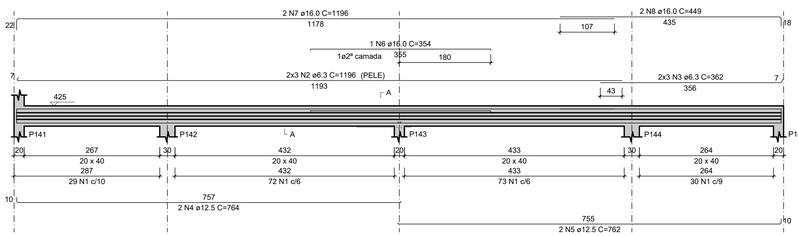
V1054=V1055
ESC 1:50



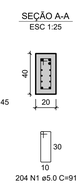
SEÇÃO A-A
ESC 1:25



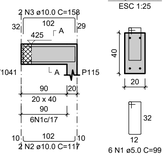
V1046
ESC 1:50



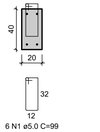
SEÇÃO A-A
ESC 1:25



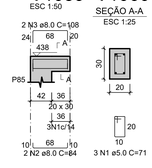
V1052=V1053
ESC 1:50



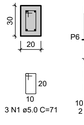
SEÇÃO A-A
ESC 1:25



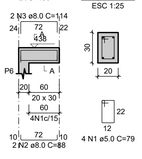
V1059=V1060
ESC 1:50



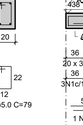
SEÇÃO A-A
ESC 1:25



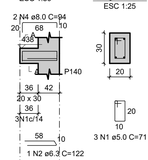
V1062
ESC 1:50



SEÇÃO A-A
ESC 1:25

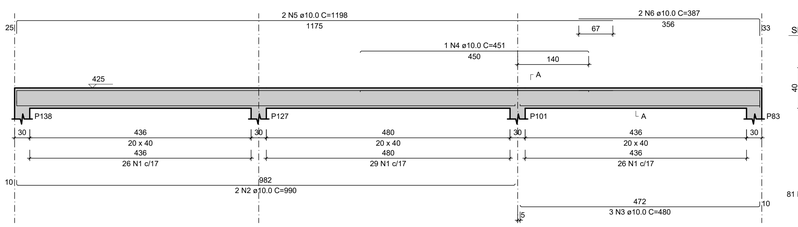


V1066
ESC 1:50

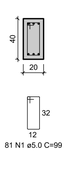


SEÇÃO A-A
ESC 1:25

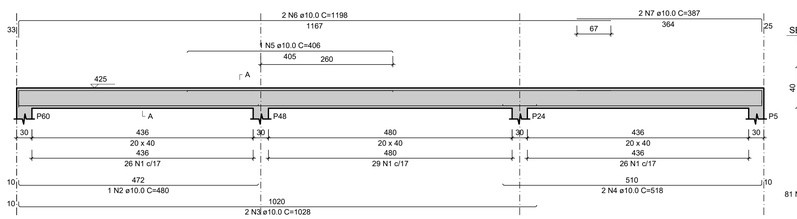
V1049
ESC 1:50



SEÇÃO A-A
ESC 1:25

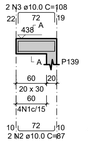


V1050
ESC 1:50

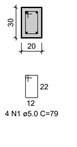


SEÇÃO A-A
ESC 1:25

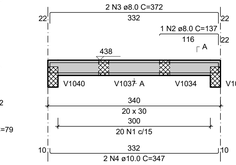
V1056
ESC 1:50



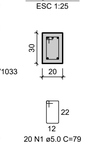
SEÇÃO A-A
ESC 1:25



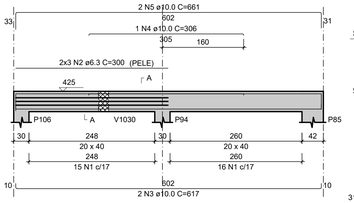
V1057
ESC 1:50



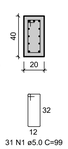
SEÇÃO A-A
ESC 1:25



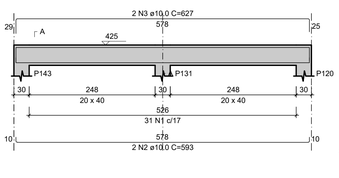
V1058
ESC 1:50



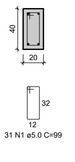
SEÇÃO A-A
ESC 1:25



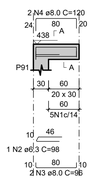
V1099=V1100=V1103=V1104
ESC 1:50



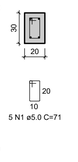
SEÇÃO A-A
ESC 1:25



V1114=V1116=V1117=V1119
ESC 1:50



SEÇÃO A-A
ESC 1:25



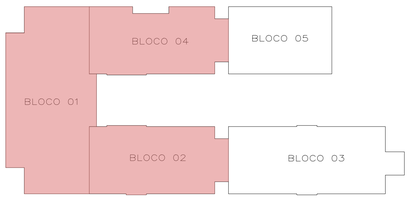
RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1040	CA60	1	5.0	197	99	19503
	CA50	2	6.3	17	100	1700
	CA50	3	6.3	6	677	4062
	CA50	4	6.3	6	532	3192
	CA50	5	6.3	6	536	3216
	CA50	6	12.5	2	1110	2220
	CA50	7	12.5	1	515	515
	CA50	8	12.5	2	983	1966
	CA50	9	12.5	1	525	525
	CA50	10	12.5	3	529	1587
	CA50	11	16.0	1	344	344
	CA50	12	16.0	1	877	877
	CA50	13	16.0	1	1173	1173
	CA50	14	16.0	1	344	344
	CA50	15	16.0	2	1196	2392
	CA50	16	16.0	2	1200	2400
	CA50	17	16.0	2	470	940
V1042	CA60	1	5.0	24	99	2376
	CA50	2	10.0	2	453	906
	CA50	3	12.5	2	499	998
V1043	CA60	1	5.0	19	91	1729
	CA50	2	6.3	6	319	1914
	CA50	3	8.0	3	325	975
	CA50	4	10.0	2	362	724
V1044	CA60	1	5.0	97	91	8827
	CA50	2	6.3	6	333	1998
	CA50	3	8.0	4	517	2068
	CA50	4	8.0	2	90	180
	CA50	5	12.5	1	509	509
	CA50	6	12.5	2	838	1676
	CA50	7	12.5	1	239	239
	CA50	8	12.5	2	763	1526
	CA50	9	12.5	2	874	1748
V1045	CA60	1	5.0	32	91	2912
	CA50	2	8.0	3	90	270
	CA50	3	10.0	2	451	902
	CA50	4	10.0	2	206	412
	CA50	5	10.0	3	487	1461
V1046	CA60	1	5.0	204	91	18564
	CA50	2	6.3	6	1196	7176
	CA50	3	6.3	6	362	2172
	CA50	4	12.5	2	764	1528
	CA50	5	12.5	2	762	1524
	CA50	6	16.0	1	354	354
	CA50	7	16.0	2	1196	2392
	CA50	8	16.0	2	449	898
2xV1048	CA50	1	5.0	10	71	710
	CA50	2	8.0	4	96	384
	CA50	3	8.0	4	120	480
V1049	CA60	1	5.0	81	99	8019
	CA50	2	10.0	2	990	1980
	CA50	3	10.0	3	480	1440
	CA50	4	10.0	1	451	451
	CA50	5	10.0	2	1198	2396
	CA50	6	10.0	2	387	774
V1050	CA60	1	5.0	81	99	8019
	CA50	2	10.0	1	480	480
	CA50	3	10.0	2	1028	2056
	CA50	4	10.0	2	518	1036
	CA50	5	10.0	1	406	406
	CA50	6	10.0	2	1198	2396
	CA50	7	10.0	2	387	774
2xV1052	CA60	1	5.0	12	99	1188
	CA50	2	10.0	4	117	468
	CA50	3	10.0	4	158	632
2xV1054	CA60	1	5.0	14	99	1386
	CA50	2	6.3	12	111	1332
	CA50	3	10.0	4	116	464
	CA50	4	10.0	4	157	628
V1056	CA60	1	5.0	4	79	316
	CA50	2	10.0	2	87	174
	CA50	3	10.0	2	108	216
V1057	CA60	1	5.0	20	79	1580
	CA50	2	8.0	1	137	137
	CA50	3	8.0	2	372	744
	CA50	4	10.0	2	347	694
V1058	CA60	1	5.0	31	99	3069
	CA50	2	6.3	6	300	1800
	CA50	3	10.0	2	617	1234
	CA50	4	10.0	1	306	306
	CA50	5	10.0	2	661	1322
2xV1059	CA60	1	5.0	6	71	426
	CA50	2	8.0	4	84	336
	CA50	3	8.0	4	108	432
V1062	CA60	1	5.0	4	79	316
	CA50	2	8.0	2	88	176
	CA50	3	8.0	2	114	228
V1066	CA60	1	5.0	3	71	213
	CA50	2	6.3	1	122	122
	CA50	3	8.0	2	84	168
	CA50	4	8.0	2	94	188
4xV1099	CA50	1	5.0	124	99	12276
	CA50	2	10.0	8	593	4744
	CA50	3	10.0	8	627	5016
4xV1116	CA60	1	5.0	20	71	1420
	CA50	2	6.3	4	98	392
	CA50	3	8.0	8	96	768
	CA50	4	8.0	8	120	960

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	290.8	78.3
	8.0	84.9	36.9
	10.0	344.9	233.9
	12.5	165.6	175.5
	16.0	121.1	210.3
CA60	5.0	928.5	157.4
PESO TOTAL (kg)			
CA50	734.9		
CA60	157.4		

Volume de concreto (C-30) = 9.58 m³
Área de forma = 83.77 m²



JOSÉ VILMAR P. DE FRAGA
ARQUITETO E URBANISTA

BRUNO REBECHI DALLE MULLE
ENGENHEIRO CIVIL

ANA CAROLINA M. SANTOS
ARQUITETA E URBANISTA

HENRIQUE RODRIGUES DIAS
AUX. ENGENHARIA CIVIL

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PREFEITURA MUNICIPAL DE IMBÉ
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OBRA: E. M. E. F. RUI BARBOSA
NOVAS INSTALAÇÕES

ADMINISTRAÇÃO 2025/2028
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DESENHO: BRUNO

ESCALA: INDICADAS

DATA: ABRIL 2025

ÁREA: 2.491,91m²

ANA CAROLINA MOREIRA SANTOS
ARQUITETA E URBANISTA
CAU A1715046

BRUNO REBECHI DALLE MULLE
ENGENHEIRO CIVIL
CREA–RS 202922

RUTH JOSIELLI MONTEIRO RUSCHEL
SECRETARIA MUNICIPAL DE EDUCAÇÃO

PROJETO: ESTRUTURAL
ARMADURAS VIGAS COBERTURA – BLOCOS 02 E 04 – 03

PRANCHA: 16/56